INDEX OF NAMES.

PAGE

Bartlett, J. R., Comdr., ... 25

Beehler, W. H., Lieut., ... 121, 483

Belknap, C., Lieut., ... xix, 119, 162

Chadwick, F. E., Lieut. Comdr., ... 255

Chambers, W. I., Ensign, ... 437

Clark, N. B., P. A. Engnr., ... 1, 183, 454

Cooke, A. P., Comdr., ... 161, 453

Forbes, R. B., Hon. 397

Harrington, P. F., Comdr., ... 385

Hogg, W. S., Ensign, ... 336

Kafer, J. C., P. A. Engnr., ... 110, 157, 458

Kimball, W. W., Lieut., ... 189, 231, 339, 405

Lee, Jas. P., Mr. 325

Manning, C. H., P. A. Engnr., ... 335

Mason, T. B. M., Lieut., ... 328

Miller, J. W. Lieut., ... 456

Munroe, C. E., Prof., ... 84, 111, 187, 485, 486

Rice, J. M., Prof., ... 447

Robeson, H. B., Comdr., ... 154, 328

Rodgers, C. R. P., Rear Adm., ... 181

Rodgers, R. P., Lieut., ... 157

Rogers, W. A., Prof., ... 205, 353

Ross, A., Lieut., ... 461

PAGE

Schroeder, S. Lieut., ... 85

Simpson, E., Commo., ... 155, 165

Soley, J. R., Prof., ... 297

Sprague, J. P., Chief Engnr., ... xxii

Thomas, C. M., Lieut. Comdr., ... 328

Tyler, G. W., Lieut., ... 39

Very, E. W., Lieut., ... 43

OFFICERS OF THE INSTITUTE.

1881.

PRESIDENT.

REAR-ADMIRAL JOHN RODGERS.

VICE-PRESIDENT.

REAR-ADMIRAL G. B. BALCH.

SECRETARY.

LIEUTENANT C. BELKNAP.

CORRESPONDING SECRETARY.

PROFESSOR C. E. MUNROE.

TREASURER.

CHIEF-ENGINEER JAMES P. SPRAGUE.

COMMITTEE ON PUBLICATIONS.

LIEUTENANT-COMMANDER P. F. HARRINGTON.
LIEUTENANT-COMMANDER C. M. THOMAS.
LIEUTENANT E. D. TAUSSIG.

Presidents of the Naval Institute since its organization.

1873. REAR-ADMIRAL J. L. WORDEN.
1874. REAR-ADMIRAL J. L. WORDEN.
1875. REAR-ADMIRAL C. R. P. RODGERS.
1876. REAR-ADMIRAL C. R. P. RODGERS.
1877. REAR-ADMIRAL C. R. P. RODGERS.
1878. COMMODORE F. A. PARKER.
1879. REAR-ADMIRAL JOHN RODGERS.
1880. REAR-ADMIRAL JOHN RODGERS.

BRANCHES.

Washington.

VICE-PRESIDENT,

REAR-ADMIRAL T. A. JENKINS.

CORRESPONDING SECRETARY,

LIEUTENANT E. W. VERY.

New York.

VICE-PRESIDENT,

CHIEF-ENGINEER C. H. LORING.

CORRESPONDING SECRETARY,

LIEUTENANT R. M. G. BROWN.

Norfolk.

VICE-PRESIDENT,

COMMODORE A. K. HUGHES.

CORRESPONDING SECRETARY,

LIEUTENANT E. W. WATSON.

Boston.

VICE-PRESIDENT,

COMMODORE G. M. RANSOM.

CORRESPONDING SECRETARY,

CIVIL ENGINEER U. S. G. WHITE.

Pacific Station.

VICE-PRESIDENT,

REAR-ADMIRAL T. H. STEVENS.

CORRESPONDING SECRETARY,

LIEUTENANT T. B. M. MASON.

Mare Island.

VICE-PRESIDENT,

CAPTAIN W. P. MC-CANN.

CORRESPONDING SECRETARY,

COMMANDER A. P. COOKE.

Philadelphia.

VICE-PRESIDENT,

COMMODORE E. SIMPSON.

CORRESPONDING SECRETARY,

LIEUTENANT J. C. RICH.

South Atlantic Station.

TEMPORARY CORRESPONDING SECRETARY,

MASTER H. P. MC INTOSH.

Asiatic Station.

TEMPORARY CORRESPONDING SECRETARY,

MASTER S. A. STAUNTON.

LIST OF MEMBERS.

501.

April, 1881.

(Notice—The Proceedings will be sent to the addresses herein given, until information is received to the contrary. To prevent the loss of numbers, the Secretary should be notified when an address is either incorrectly given or changed.)

ABBOTT, C. W., PAY DIR. Navy Yard, Boston.
ACKLEY, S. M., LIEUT. "Palos."
ADAMS, J. D., LIEUT. Mare Island Yard.
ALGER, P. R., C.MID'N. "Richmond."
ALLDERDICE, W., ESQ., No. 30, S. Charles St., Baltimore.
ALLEN, G M, ASST. PAYM. "Adams."
ALLEN, L. J., CHIEF-ENGNR. "Marion."
ALLEN, L. W., PAYM. "Constitution."
ALLEN, W. A. H., P. A. ENGNR. Navy Department.
ALMY, J. J., REAR-ADM. No. 1019, Vermont Ave., Washington.
AMES, H. E., P. A. SURG. "Saratoga."
AMMEN, D., REAR-ADM. Beltsville, Md.
AMSDEN, C. H., ENSIGN, Coast Survey Office.
ARMS, F. H., PAYM. Navy Yard, Boston.
ARNOLD, SOLON, C.ENGNR. Naval Academy.
ASHMORE, H. B., C. MIDN. "Powhatan."
ASPINWALL, LLOYD, GEN. New York City.
ASSERSON, P. C., CIV. ENGNR. Navy Yard, Norfolk.
ASTON, A., CHIEF-ENGNR. Portsmouth Yard.
ATWATER, C. N., MIDN. "Constitution."
BACON, A. W., PAYM. No. 1525, I St., Washington.
BAIRD, G. W., P. A. ENGNR. 409 M St., Washington.
BAKER, A. C., MASTER. Hydrographic Office.
BAKER, C. H., CHIEF-ENGNR. "Richmond."
BALCH, G. B., REAR-ADM. Naval Academy.
BARTLETT, J. R., COMDR. Coast Survey Office.
BARKER, A. S., COMDR. Light-House Inspector, New Orleans, La.
BARNETTE, W. J., LIEUT. Naval Academy.
BARTLETT, C. W., MASTER. Naval Academy.
BARTLETT, H. A., CAPT. M. C. "Minnesota."

BARBER, J. A. JR., MASTER, "Colorado."
BARTON, J. Q., P. A. PAYM. "Nipsic."
BASSETT, F. S., LIEUT. Boston Yard.
BATCHELLER, O. A., COMDR. Boston.
BATES, M. L., MED. INSP. Nav. Hospital, Yokohama, Japan.
BEARDSLEE, L. A., CAPT. Navy Department.
BEAUMONT, H. N., SURG. "Marion."
BEEHLER, W. H., LIEUT. Torpedo Station.
BELMONT, O. H. P., C. MIDN. No. 19 Nassau St., New York.
BENJAMIN, PARK, PH. D. P. O. Box 1009, New York.
BENSON, W. S., MIDN. "Constitution."
BERNADOU, J. B., C.MIDN. "Kearsarge."
BERRY R. M., LIEUT. Arctic Relief Stmr. Helen and Mary.
BERWIND, E. J., MASTER. 52 Broadway, New York.
BIXLER, L. E., LIEUT. "Kearsarge."
BLOW, G. P., C.MIDN. Naval Academy.
BOOK, G. M., LIEUT. "Montauk."
BOLLES, T. D., LIEUT. Santa Barbara, Cal.
BOUSH, G. R., NAV. CONSTR. Navy Yard, New York.
BOWDON, F. W., C.MIDN. "Galena."
BOWMAN, C. G., LIEUT. "Adams."
BOYD, A. A., ESQ. No. 106 5th Ave., New York.
BRADFORD, R. B., LIEUT. COMDR. Torpedo Station.
BREESE, K. R., CAPT. Bellefonte, Pa.
BRIDGMAN, W. R., COMDR. Keokuk, Ia.
BRINLEY, EDWARD, C. MIDN. "Quinnebaug."
BROOME, J. L., MAJOR, U. S. M. C. Mar. Barracks, New York.
BROSNAHAN, T. G., P. A. ENGNR. "Marion."
BROWN, R. M. G., LIEUT. "Alarm."
BROWN, S. A., P. A. SURG. "Pensacola."
BROWNE, S. T., PAYM. "Powhatan."
BROWNSON, W. H., LIEUT. COMDR. Naval Academy.
BRUSH, G. R. SURG. "Colorado," New York.
BRYAN, B. C., C.ENGNR. "Kearsarge."
BUCKINGHAM, B. H., LIEUT. "Richmond."
BUEHLER, W. G., CHIEF ENGNR. Phila., Pa.
BUFORD, M. B., LIEUT. "Pensacola."
BULL, J. H., LIEUT. "Powhatan."
BUNCE, F. M., COMMANDER. "Marion."
BURGDOFF, T. F., ASST. ENGNR. "Nipsic."
BURTIS, ARTHUR., PAYM. No. 1301 Walnut St., Phila., Pa.
BYRNE, J. E., C.ENGNR. Naval Academy.
BYRNES, J. C., ASST. SURG. Navy Department.
CABANISS, CHARLES, C.MIDN. "Swatara."
CALDWELL, A. G., LIEUT. COMDR. Torpedo Station.
CALHOUN, G. A., LIEUT. New York Yard.
CANFIELD, W. C., MIDN. "Minnesota."

CARMODY, J. R., PAYM. Mohawk, Herkimer Co., N. Y.
CARR, C. A., C.ENGNR. "Kearsarge."
CARTER, S. P., COMMO. 1316 Connecticut Ave., Washington.
CHADWICK, F. E., LIEUT. COMDR. Light Ho. Off., New York.
CHAMBERS, W. I., ENSIGN. "Marion."
CHESTER, C. M., LIEUT. COMDR. Coast Survey Office.
CHURCH, G. H., ESQ. No. 13, Old Slip, New York.
CLARK, C. E., LIEUT. COMDR. Montpelier, Vt.
CLARK, N. B., P. A. ENGNR. No. 143, School Lane, Germantown, Pa.
CLASON, W. P., MASTER. "Alert."
CLINE, H. H., P. A. ENGNR. "Swatara."
COCKLE, R. R., C.MIDN. Naval Academy.
COFFIN, J. H. C., PROFESSOR. 1901 I Street, Washington.
COHEN, H. R., C. MIDN. Naval Academy.
COLAHAN, C. E., LIEUT. No. 3914 Spruce St. Phila., Pa.
COLLINS, F. LIEUT. "Saratoga."
COLLUM, R. S., CAPTAIN U. S. M. C. Marine Barracks, Washington.
COOK, SIMON, MIDN. "Constitution."
COOKE, A. P., COMDR. Navy Yard, Mare Island.
COOPER, T. J. W., P. A. ENGNR. League Island Yard.
COURTIS, F., LIEUT. Care Navy Pay Office, San Francisco.
COWLES, W., ESQ. Unknown.
CRAIG, B. H., C. MIDN. Naval Academy.
CRAIG, J. E., LIEUT. COMDR. "Alaska."
CRAVEN, H. S., CIVIL ENGNR. League Island Yard.
CUTTER, G. F., PAYMASTER-GENERAL. Navy Department.
DANENHOWER, J. W., LIEUT. Stmr. Jeannette, Arctic Expedition.
DASHIELL, R. B., C. MIDN. Naval Academy.
DAVIDS, H. S., CHIEF ENGNR. Care Navy Pay Office, San Francisco.
DELEHANTY, D., LIEUT. Naval Academy.
DERBY, R. C., LIEUT. "Vandalia."
DEVALIN, C. E., CHIEF ENGNR. "Lackawanna."
DEWEY, G., COMDR. Light House Board.
DICKENS, F. W., LIEUT. COMDR. No. 1405, H. St. Washington.
DODD, A. W., MIDN. "Constitition."
DORR, E. P. ESQ. Buffalo, N. Y.
DORN, E. J., ENSIGN. Hydrographic Office.
DOYEN, C. A., C.MIDN. Naval Academy.
DRAKE, F. J., LIEUT. "Ticonderoga."
DRESSER, J. W., C.MIDN. Naval Academy.
DRIGGS, W. H., LIEUT. "Ranger."
DUNCAN, LOUIS, C.MIDN. "Lackawanna."
DYER, G. L., LIEUT. "Constitution."
DYER, N. M., LIEUT COMDR. "Wabash."
EASBY, J. W., CHIEF CONSTR. Navy Department.
EASTMAN, J. R., PROFESSOR. Naval Observatory.
ELDREDGE, HOUSTON, MIDN. Naval Academy.

ELMER, H., LIEUT. COMDR. "Kearsarge."
EMERSON, W. H., C. MIDN. "Pensacola."
EMMETT, W. LE R., C. MIDN. Naval Academy.
ENGLISH, E., COMMO. Navy Department.
EVANS, R. D., COMDR. Washington Yard.
EVERETT, W. H. LIEUT. Navy Yard, New York.
EYRE, M. K., C. MIDN. "Richmond."
FARQUHAR, N. H., COMDR. "Quinnebaug."
FARRAGUT, LOYALL, ESQ. No. 113, E. 36th St., New York.
FEBIGER, J. C., COMMO. Easton, Md.
FERNALD, F. L., ASST NAV. CONSTR. League Island Yard.
FIELD, W. L., LIEUT. "Richmond."
FILLEBROWN, T. S., CAPTAIN. Navy Department.
FLYNNE, L., ENSIGN. Coast Survey Office.
FOLGER, W. M., LIEUT. COMDR. "Swatara."
FORD, J. D., P. A. ENGNR. "Tennessee."
FORD, W. G., C. MIDN. Naval Academy.
FOSTER, C. A., MASTER. Navy Yard, Pensacola.
FRANKLIN, S. R., Commo. No. 1338, 19th St., Washington.
FRISBY, E., PROFESSOR. Naval Observatory.
FULMER, D. M., P. A. ENGNR. League Island Yard.
FYFFE, J., CAPTAIN. "Franklin."
GALLOWAY, C. D., MASTER. "Saratoga."
GALT, R. W., ASST. ENGNR. Coast Survey Office.
GARDNER, T. M., LIEUT. COMDR. "Onward."
GARVIN, J., LIEUT. "Wachusett."
GEARING, H. C., ENSIGN. "Marion."
GIBBS, B. F., MED. INSP. 1416 Q. Street, Washington.
GIBSON, W., COMDR. 1518 H Street, Washington.
GIBSON, W. C., LIEUT. "Yantic."
GILL, W. A., MIDN. "Kearsarge."
GILMORE, F. P., Lieut. "Monocacy."
GLENNON, J. H., C. MIDN. No. 524, Jones St. San Francisco.
GOODRICH, C. F., LIEUT. COMDR. Navy Department.
GORGAS, A. C., MED. INSP. Naval Academy.
GORGAS, M. C., C.MIDN. "Richmond."
GORRINGE, H. H., LIEUT. COMDR. No. 112, Worth St., New York.
GRAHAM, J. D., COMDR. Navy Yard, Washington.
GRAY, JAMES, C.MIDN. "Powhatan."
GREEN, H. L., LIEUT. Naval Academy.
GREENE, B. F., PROFESSOR. West Lebanon, N. H.
GREENE, F. E., MASTER. "Yantic."
GREENE, S. D., COMDR. Naval Academy.
GREENLEAF, C. H., P. A. ENGNR. 723 14th Street, Washington.
GRIMES, J M., LIEUT. "Powhatan."
GUNNELL, F. M., MED. DIR. Navy Department.
HADDEN, W. A., LIEUT. Navy Yard, Washington.

HAESELER, F. J., C.MIDN. "Kearsage."
HAINES, H. C., C.MIDN. Naval Academy.
HAINS, R. P., C. MIDN. Naval Academy.
HANDY, H. O., LIEUT. Boston Yard.
HANFORD, F., LIEUT. New York Yard.
HANNUM, W. G., ENSIGN. Coast Survey Office.
HANSCOM, J. F., ASST. NAV. CONST. Navy Yard, Boston.
HARBER, G. B., LIEUT. "Tennessee."
HARKNESS, W., PROFESSOR. Naval Observatory.
HARRINGTON, P. F., LIEUT. COMDR. Naval Academy.
HARWOOD, A. A., REAR-ADMIRAL. Marion, Mass.
HAWLEY, J. M., LIEUT. "Pensacola."
HAYDEN, E. E., MIDN. "Kearsarge,"
HEALD, E. D. F., LIEUT. Naval Academy.
HEMPHILL, J. M., LIEUT. "Powhatan."
HERWIG, H., ASST. ENGNR. "Galena."
HICHBORN, PHILIP, NAV. CONSTR. League Island Yard.
HIGGINSON, F. J., COMDR. Lt. Ho. Insp. Baltimore, Md.
HODGSON, A. C., ENSIGN, Athens, Georgia.
HOGG, W. S., MIDN, "Alarm."
HOLMAN, G. F. W., LIEUT. Hydrographic Office.
HOWARD, T. B., ENSIGN. "Kearsarge."
HOOGEWERF, J. A., C. MIDN. Naval Academy.
HOWISON, H. L., COMDR. Navy Yard, Washington.
HUGHES, A. K., COMMO. Navy Yard, Norfolk.
HUGHES, R. M., MIDN. "Constitution."
HUNICKE, F. H., C.MIDN. Naval Academy.
HUNTER, H. C., LIEUT. "Alert."
HUSE, H. Mc. L. P., MIDN. "Galena."
HUTCHINS, C. T., LIEUT. Coast Survey Office.
HYDE, F. G., LIEUT. Naval Academy.
IDE, G. E., LIEUT. "Alliance."
INGERSOLL, R. R., LIEUT. "Pensacola."
IRWIN, W. M., MASTER. "Michigan."
IVERSON, A. J., LIEUT. Boston Yard.
JACKSON, S., MED. DIR. Boston Yard.
JAQUES, W. H., LIEUT. No. 25 Halleck St., Newark, N. J.
JASPER, R. T., LIEUT. "Powhatan."
JEFFERS, W. N., COMMO. Navy Department.
JENKINS, T. A., REAR-ADM. No. 2115 Pennsylvania Ave., Washington.
JEWELL, T. F., LIEUT. COMDR. "Constitution."
JOHNSON, A. W., CAPTAIN. No. 1213 K St., Washington.
JONES, D., P. A. ENGNR. "Nipsic."
JONES, M. D., P. A. SURG. Arctic Relief Stmr. Helen and Mary.
JONES, W. H., SURG. "Michigan."
JOUETT, J. E., CAPTAIN. Naval Station, Port Royal, S. C.
JUDD, C. H., LIEUT. "Alaska."

KAFER, J. C., P. A. ENGNR. Naval Academy.
KARNEY, T., LIBRARIAN. Naval Academy.
KEARNY, G. H., P. A. ENGNR. Naval Academy.
KEELER, J. D., LIEUT. Navy Department.
KELLEY, J. D. J., LIEUT., "Despatch."
KENNEDY, D., LIEUT. "Pensacola."
KENYON, A. J., P. A. ENGNR. "Alarm."
KING, C. A., C. ENGNR. "Monocacy."
KNAPP, H. S., MIDN. "Minnesota."
KNOX, H., LIEUT. "Adams."
LAMBDIN, W. J., CHIEF ENGNR. "Shenandoah."
LAW, R. L., CAPTAIN. Navy Department.
LAWRENCE, J. P. S., ASST. ENGNR. "Pensacola."
LEACH, B., MASTER. Norfolk Yard.
LEARY, R. P., LIEUT-COMDR. "Pensacola."
LEE, S. P., REAR-ADM. No. 1653 Penna. Ave., Washington.
LEIPER, E. T., C.MIDN. "Swatara."
LEITCH, R. R., ASST. ENGNR. No. 1707 Penna. Ave., Washington.
LENTHALL, J., CHIEF CONSTR. No. 1818 F. St., Washington.
LEROY, W. E., REAR-ADM. New York Hotel, New York.
LILLIE, A. B. H., LIEUT. "Nipsic."
LINNARD, J. H., C.MIDN. Naval Academy.
LITTLE, WILLIAM, LIEUT. "Yantic."
LITTLE, W. Mc C., LIEUT. "Minnesota."
LLOYD, E. jr., MIDN. "Constitution."
LONGNECKER, E., LIEUT. Naval Observatory.
LORING, C. H., CHIEF ENGNR. Navy Yard, New York.
LUBY, J. F., C.MIDN. "Alert."
LULL, E. P., COMDR. "Wachusett."
LYETH, C. H., MASTER. "Constitution."
LYON, H. W., LIEUT. "Galena."
MACKENZIE, M. R. S., LIEUT. No. 126, E. 24th St. New York.
MAHAN, A. T., COMDR. New York Yard.
MAHONEY, J. E., C.MIDN. Naval Academy.
MANNING, C. E., C. ENGNR. "Ashuelot."
MANNING, C. H., P. A. ENGNR. "Despatch."
MANSFIELD, H. B., LIEUT. Coast Survey Office.
MARSTON, JOHN, REAR ADM. No. 4028 Chestnut St., Phila. Pa.
MASON, T. B. M., LIEUT. "Pensacola."
MATTHEWS, E. O., COMDR. New York.
MAXWELL, W. J., MIDN. "Richmond."
MC ALLISTER, A. A., CHAPLAIN. "Pensacola."
MC CANN, W. P., CAPTAIN. Navy Yard, Mare Island.
MC CARTNEY, C. M., ENSIGN. "Nipsic."
MC COOK, R. S., COMDR. LT. HO. INSP. Cincinnati, Ohio.
MC CORMICK, A. H., COMDR. Navy Department.
MC CRACKIN, ALEXANDER, LIEUT. Naval Academy.

MC ELMELL, JACKSON, CHIEF ENGNR. League Island Yard.
MC EWEN, H. D., P. A. ENGNR. No. 1511. S. 6th St., Phila. Pa.
MC GOWAN, J. jr., LIEUT. COMDR. "Marion."
MC GOWAN, W. C., P. A. PAYM. New York.
MC GREGOR, C., COMDR. "Despatch."
MC INTOSH, H. P., MASTER. "Shenandoah."
MC JUNKIN, IRA, C.MIDN. Naval Academy.
MC KEE, L. T., C.MIDN. Naval Academy.
MC LANE, ALLAN, ESQ. No. 1500 Vermont Ave., Washington, D. C.
MC LEAN, T. C., LIEUT. "Trenton."
MC NAIR, F. V., COMDR. Naval Academy.
MC NARY, I. R., CHIEF ENGNR. "Kearsarge."
MC RITCHIE, D. G., LIEUT. Navy Department.
MEAD, W. W., LIEUT. COMDR. No. 58 W. 5th St. Covington, Ky.
MEIGS, J. F., LIEUT. Torpedo Station.
MENOCAL, A. G., CIVIL ENGNR. Navy Yard, Washington.
MENTZ, G. W., MASTER. Coast Survey Office.
MERRELL, J. P., LIEUT. "Marion."
MERRIMAN, E. C., COMDR. "Adams."
MERRY, J. F., LIEUT. Damariscotta, Me.
MIDDLETON, E., REAR ADM. No. 223 A St. S. E., Washington.
MILES, C. R., MASTER. Naval Academy.
MILLER, F. A., LIEUT. No. 1136, 17th St. Washington.
MILLER, J. M., LIEUT. "Constitution."
MILLER, JACOB W., LIEUT. Naval Academy.
MILLER, MERRILL, COMDR. Navy Department.
MINER, L. D., C. ENGNR. "Minnesota."
MOORE, J. H., LIEUT. "Constitution."
MOORE, J. W., CHIEF ENGNR. Board of Inspectors, Navy Dept.
MOORE, W. I., LIEUT. Norfolk Yard.
MOSES, F. J., C.MIDN. Naval Academy.
MUNROE, C. E., PROFESSOR. Naval Academy.
MURDOCK, J. B., LIEUT. Naval Academy.
MUSE, W. S., CAPTAIN, M. C. "Tennessee."
NAZRO, A. P., LIEUT. "Constitution."
NELSON, H. C., MED. INSP. Washington Yard.
NELSON, T., LIEUT. COMDR. "Alaska."
NEWCOMB, S., PROFESSOR. Nautical Almanac Office.
NICHOLS, H. E., LIEUT. COMDR. Coast Survey. Stmr. Hassler.
NICHOLS, S. W., COMDR. Dorchester, Mass.
NICHOLS, F. W., LIEUT. Boston Yard.
NICHOLSON, R. F., MASTER. "Portsmouth."
NICKELS, J. A. H., LIEUT. Coast Survey Office.
NICOLL, W. L., P. A. ENGNR. Trenton, N. J.
NORRIS, G. A. LIEUT. Navy Yard, New York.
NORTON, C. F., LIEUT. "Nipsic."
NORTON, C. S., COMDR. Light House Insp., Charleston, S. C.

NOSTRAND, W. H., ENSIGN. Coast Survey Office.
NOYES, B., LIEUT. Navy Department.
O'NEIL, C., LIEUT. COMDR. Navy Yard, Boston.
OSTERHAUS, H., MASTER. Coast Survey Office.
PAINE, F. H., LIEUT. "Trenton."
PAINE, S. C., LIEUT. No. 1901, I St., Washington, D. C.
PARKER, FELTON, C.MIDN. Naval Academy.
PARKER, J. B., SURGEON. "Wachusett."
PARKER, W. H., LIEUT. Naval Academy.
PATCH, N. J. K., LIEUT. "Richmond."
PAUL, A. G., LIEUT. No. 220 S. 4th St., Phila., Pa.
PAUL, H. M., ASTRONOMER. Naval Observatory.
PEARSON, FRED, COMDR. Union Club, New York.
PECK, G., MED. DIR. Mare Island Yard.
PECK, R. G., LIEUT. "Alert."
PEGRAM, J. C. ESQ., No. 43 N. Main St. Providence, R. I.
PENDLETON, C. H., LT. COMDR. 126 W. Madison St., Baltimore.
PENDLETON, E. C., LIEUT. "Swatara."
PERKINS, G. H., COMDR. Union Club, Boston.
PERKINS, H., LIEUT. "Vandalia."
PERRY, T., LIEUT. "Swatara."
PHELPS, T. S., COMMO. Care of Navy Pay Office, San Francisco.
PHILIP, J. W., COMDR. Care Navy Pay office, San Francisco.
PHILLIPPI, E. T., P. A. ENG. Portsmouth Yard.
PHYTHIAN, R. L., COMDR. Navy Department.
PICKING, H. F., COMDR. "Kearsarge."
PIGMAN, G. W., LT. COMDR. "Wachusett."
PILLSBURY, J. E., LIEUT. "Kearsage."
PLATT, R., MASTER. Nitre Depot, Malden, Mass.
POOK, S. H., NAVAL CONSTR. Navy Yard, Boston.
PRINDLE, J. C., CIVIL ENGNR. Navy Yard, New York.
QUEEN, W. W., CAPTAIN. Navy Department.
RAE, C. W., P. A. ENGNR. "Wachusett."
RAE, T. W. ESQ., No. 239, Broadway, N. Y.
RANSOM, G. M., COMMO. Navy Yard, Boston.
READ, G. A., P. A. PAYM. Navy Department
READ, J. J., COMDR. Light House Insp., St. Louis, Mo.
REAMEY, L. L., LIEUT. Hydrographic Office.
REES, C. P., LIEUT. Naval Academy.
REES, J. L., C. MIDN. Naval Academy.
REEVES, I. S. K., ASST. ENGR. "Adams."
REISINGER, W. W., LIEUT. "Trenton."
REITER, G. C., LIEUT-COMDR. Light House Office, Portland, Oregon.
REMEY, E. W., LIEUT. "Trenton."
REMEY, G. C., COMDR. Navy Department.
REMEY, W. B., JUDGE ADV. GEN. Navy Department.
REYNOLDS, ALFRED, MASTER. New York Yard.

RHOADES, W. W., LIEUT. Anacostia, D. C.
RICE, J. M., PROFESSOR. Naval Academy.
RICH, J. C., LIEUT. League Island Yard.
RIDER, F. C., C. MIDN. Naval Academy.
ROBESON, H. B., COMDR. Naval Academy
ROBIE, E. D., CHIEF ENGNR. Navy Dept.
ROBINSON, L. W., P. A. ENGNR. "Minnesota."
ROBINSON, W. M., C. MIDN. Naval Academy.
RODGERS, C. R. P., REAR ADM. No 818, 18th St., Washington.
RODGERS, J., REAR ADM. Naval Observatory.
RODGERS, W. L., MIDN. Naval Observatory.
ROELKER, C. R., P. A. ENGNR. Navy Department.
ROHRBACKER, J. H., C. MIDN. "Pensacola."
ROOSEVELT, N. L., ESQ. No. 52, William St., N. Y.
ROSS, A., LIEUT. Portsmouth.
ROWAN, S. C., VICE ADM. Navy Department.
RUSH, R., LIEUT. Naval Academy,
RUSH, W. R., MIDN. "Constitution."
RUSSELL, B. R., 1ST LIEUT. U. S. M. C. "Galena."
RUTH, M. L., SURG. Naval Academy.
SAFFORD, W. E., C.MIDN. Powhatan.
SAMPSON, W. T., COMDR. "Swatara."
SANDS, B. F., REAR ADM. No. 816, 15th Street, Washington.
SARGENT, N., MASTER. "Portsmouth."
SAWYER, F. E., MASTER. "Ashuelot."
SCHAEFER, H. W., LIEUT. Naval Academy.
SCHETKY, C. A., LT. COMDR. "St. Louis."
SCHOCK, J. L., C. MIDN. Naval Academy.
SCHOULER, J., LIEUT. COMDR. Naval Academy.
SCHROEDER, S., LIEUT. Hydrographic Office.
SCOT, J. A., P. A. ENGR. League Island Yard.
SEBREE, U., LIEUT. Coast Survey Office.
SELFRIDGE, J. R., LIEUT. "Portsmouth."
SELFRIDGE, T. O., REAR-ADM. No. 2013, I St. Washington.
SHARP, ALEXANDER, ENSIGN. "Pensacola."
SHAW, C. P., LIEUT. Navy Department.
SHEPARD, E. M., COMDR. Naval Academy.
SHOCK, W. H., ENGINEER IN CHIEF. Navy Department.
SICARD, M., COMDR. Navy Yard, Boston.
SIGSBEE, C. D., LT. COMDR. Hydrographic Office.
SIMPSON, E., COMMO. League Island Yard.
SIMPSON, E. jr., C. MIDN. "Richmond."
SKERRETT, J. S., CAPT. Light-House Inspector, Portland, Me.
SKINNER, A. N., ASTRONOMER. Naval Observatory.
SLACK, W. H., MASTER. No. 714, 18th St., Washington.
SLOANE, J. D., ASST. ENGNR. "Ranger."
SMITH, A. E., C. ENGNR. "Despatch."

SMITH, D., CHIEF ENGNR. "Nipsic."
SMITH, J. A., PAY INSP. Navy Pay Office, Washington.
SMITH, W. D., CHIEF ENGNR. "Yantic."
SMITH, W. STROTHER, C. ENGNR. "Pensacola."
SMITH, W. STUART, C. ENGNR. Naval Academy.
SNYDER, H. L., CHIEF ENGNR. "Minnesota."
SOLEY, J. C., LIEUT. "Saratoga."
SOLEY, J. R., PROFESSOR. Naval Academy.
SOUTHERLAND, W. H. H., MASTER. "Kearsage."
SPEEL, J. N., P. A. PAYM. Navy Department.
SPERRY, C. S., LIEUT. "Richmond."
SPEYERS, A. B., LIEUT. "Saratoga."
SPRAGUE, F. J., MIDN. "Minnesota."
SPRAGUE, J. P., CHIEF ENGNR. Naval Academy.
STAHL, A. W., C. ENGNR. "Galena."
STANTON, J. R , P. A. PAYM. "Kearsage."
STANTON, O. F., CAPT. "Constitution."
STAUNTON, S. A., MASTER. "Swatara."
STAYTON, W. H., C. MIDN. Naval Academy.
STEVENS, T. H., REAR-ADM. "Pensacola."
STEVENS, T. H., LIEUT. "Pensacola."
STEWART, H. H.. CHIEF ENG. No. 1707, S. Broad St., Phila.
STEWART, ROBERT, C. ENGNR. Naval Academy.
STOCKTON, C. H., LIEUT. Navy Yard, Washington.
STOCKTON, H. T., LIEUT. Asiatic Station.
STRONG, E. T., LIEUT. Navy Yard, Boston.
STRONG, W. C., LIEUT. "Wyoming."
SULLIVAN, J. T., LIEUT. Washington Yard.
SUTTON, F. E., C. MIDN. Naval Academy.
TANNER, Z. L., LIEUT. Steamer Fish-hawk.
TAUSSIG, E. D., LIEUT. Naval Academy.
TAYLOR, H. C., LIEUT. COMDR. "Saratoga."
TERRELL, T. C., LIEUT. Pensacola Yard.
TERRY, E., COMMANDER. Los Angelos, Cal.
TERRY, N. M., PROFESSOR. Naval Academy.
THACKARA, A. M., LIEUT. Hotel Vendome, Boston.
THOMAS, C., MASTER. Nautical Almanac Office.
THOMAS, C. M., LIEUT. COMDR. Naval Academy.
THOMAS, E. B., LIEUT. Coast Survey Office.
TILLEY, B. F., LIEUT. Naval Academy.
TILLMAN, E. H., MIDN. "Shenandoah."
TILTON, McL., CAPTAIN M. C. Marine Barracks, Washington.
TOTTEN, G. M., LIEUT. "Tennessee."
TRAIN, C. J., LIEUT. COMDR. Naval Academy.
TRIBOU, D. H., CHAPLAIN. Navy Yard, Boston.
TRILLEY, J., CHIEF ENGNR. "Wabash."
TRUXTUN, W. T., CAPTAIN. Navy Yard, Norfolk.

TRYON, J. R., SURGEON. Sturdevant House, New York.
TURNBULL, FRANK, LIEUT. Morristown, N. J.
TURNER, T. J., MED. DIR. Navy Department.
TURNER, W. H., LIEUT. Navy Yard, Portsmouth.
TYLER, A. C., ESQ. Norwich, Conn.
TYLER, G. W., LIEUT. Naval Academy.
UPSHUR, J. H., COMMO. Europe.
VAN DUZEN, L. S., C. MIDN. "Powhatan."
VERY, E. W., LIEUT. Navy Signal Office.
VREELAND, C. E., MASTER. "Ticonderoga."
WADHAMS, A. V., LIEUT. "Nipsic."
WADSWORTH, HERBERT, ESQ., No. 45, Beacon St., Boston, Mass.
WAGGENER, J. R., P. A. SURG. "Vandalia."
WARD, A., MASTER. "Constitution."
WARING, H. S., MASTER. Arctic Relief Stmr. Helen and Mary.
WASHINGTON, R., PAY INSP. "Richmond,"
WATSON, E. W., LIEUT. Navy Yard, Norfolk.
WEAVER, W. D., C. ENGNR. "Yantic."
WEBB, T. E., NAVAL CONSTR. Navy Yard, New York.
WEEKS, J. W., C. MIDN. Naval Academy.
WELLS, C. H., COMMO. Navy Department.
WELLS, H., P. A. SURG. "Constitution."
WEST, C. H., LIEUT. "Alliance,"
WHITE, EDWIN, LIEUT. COMDR. Naval Academy.
WHITE, U. S. G., CIVIL ENGNR. Navy Yard, Boston.
WHITE, W. W., C. ENGNR. Naval Academy.
WILLIAMS, W. W., PAY INSP. "Trenton."
WILSON, D. L., MASTER. 53, Bridge St., Georgetown, D. C.
WILSON, J. C., LIEUT. "Tennessee."
WILSON, H. B., C. MIDN. Naval Academy.
WILSON, J. G., GEN. No. 15, E. 74th St., New York.
WINDSOR, W. A., P. A. ENGNR. Naval Academy.
WINN, J. K., LIEUT. COMDR. Key West, Fla.
WINSLOW, F., MASTER. "Saratoga."
WISE, F. M., LIEUT. "Despatch."
WOLFERSBERGER, W. H., C.MIDN. Princeton, Bureau Co., Ill.
WOOD, E. P., LIEUT. "Quinnebaug."
WOOD, T. N., 2D LIEUT., U. S. M. C. Marine Barracks, Washington.
WOODWARD, E. T., COMDR. "Yantic."
WOOLVERTON, T., SURGEON. Naval Hospital, Phila.
WORDEN, J. L., REAR-ADM. No. 1428, K. St., Washington.
WRIGHT, A. H., LIEUT. COMDR. 23, Jenning's Ave., Cleveland, O.
WRIGHT, R. K., MIDN. "Constitution."
WYMAN, R. H., REAR-ADM. "Tennessee."
YATES, I. I., LIEUT. Schenectady, N. Y.
YATES, A. R., COMDR. Portsmouth, N. H.
ZANE, A. V., P. A. ENGNR. Arctic Relief Steamer, Helen and Mary.

LIFE MEMBERS.—3.

HON. R. B. FORBES, Milton, Mass.
COMDR. A. D. BROWN, PRIZE ESSAYIST, 1879. Torpedo Station.
LIEUT. C. BELKNAP, PRIZE ESSAYIST, 1880. Naval Academy.

HONORARY MEMBERS,—6.

Arranged in order of election.

CHIEF JUSTICE C. P. DALY, No. 11, W. 29th St., New York.
PRESIDENT C. W. ELIOT, LLD., Harvard University, Cambridge.
CAPTAIN J. ERICSSON, 36 Beach Street, New York.
SUPERINTENDENT C. P. PATTERSON, LLD., U. S. Coast Survey.
HON. R. W. THOMPSON, Ex-Secretary of the Navy, Washington.
GEN. U. S. GRANT. New York City.

ASSOCIATE MEMBERS,—19.

ACKLAND, W. A. D., COMDR. R. N. H. B. M. S. Triumph, Pacific Station.
ARTHUR, W., CAPT. R. N., British Legation, Washington.
BAILEY, N. P. ESQ. 11 West Twenty-eighth Street, New York.
BATTEN, A. W. C. LIEUT. R. N. H. B. M. S. Triumph, Pacific Station.
BRENTON, R. O. B. C., LIEUT. R. N. " "
BOUTELLE, C. O., ASSISTANT COAST SURVEY. Norfolk, Va.
BROOKE, J. M. ESQ. Virginia Military Institute, Lexington, Va.
CHASE, LESLIE, ESQ. No. 30 Broad Street, New York.
FORSTER, E. J., DR. Charlestown, Mass.
HOFFMAN, J. W., ESQ. 259 South 17th Street, Philadelphia, Pa.
HUNT, W. P., ESQ. South Boston Iron Works.
LYON, HENRY, M. D. Charlestown, Mass.
METCALFE, H., CAPTAIN U. S. A. Frankford Arsenal, Philadelphia, Pa.
MILLER, H. W., ESQ. Morristown, N. J.
MYERS, T. B., ESQ. No. 4 West 34th Street, New York.
NORDHOFF, C., ESQ. Alpine, Bergen Co., N. J.
ROPES, J. C. ESQ., No. 53, Temple, St., Boston, Mass.
RUSSELL, A. H., 1ST LIEUT., U. S. A. Watertown Arsenal Mass.
SARGENT, C. S., PROF. Harvard University, Brookline, Mass.

CORRESPONDING SOCIETIES.

American Academy of Arts and Sciences, Boston, Mass.
American Geographical Society, No. 11, W. 29th St., New York.
American Institute of Mining Engineers, Easton, Pa.
American Society of Civil Engineers. No. 127, E. 23d St., New York.
American Society of Mechanical Engineers. No. 239, Broadway, New York.
Association Parisienne des Propriétaires d'Appareils à Vapeur. No. 56, Boulevard Haussman, Paris.
Franklin Institute, No. 15, S. 7th St., Phila., Pa.
Military Service Institution of the U. S. Governor's Island, New York.
Royal United Service Institution, Whitehall Yard, London.
Société des Ingénieurs Civils. No. 10, Cité Rougemont, Paris.

NECROLOGY.

Chief Engineer Harman Newell. Born in Pennsylvania. Appointed Third Assistant Engineer, Sept. 22, 1849. Office engineer-in-chief and coast survey duty, 1849–52. Promoted to Second Assistant Engineer, Feb. 26, 1851. April 17, 1852, detached and leave. Aug. 10, 1852, to the Saranac, home station. Promoted to First Assistant Engineer, May 21, 1853. June 15, 1853, detached, and to the Princeton, home station. July 25, 1854, detached and to engineer-in-chief's office. Arctic expedition for relief of Dr. Kane, under Lieut. Hartstene, 1855–56. Nov. 18, 1856, to superintend repairs on the Fulton. Sept. 4, 1857, to the Fulton, Paraguay expedition and Brazil station. Commissioned Chief Engineer April 23, 1859. May 7, 1859, detached and to office of engineer-in-chief. May 17, 1859, temporary duty at Philadelphia. Sept. 1, 1859, to the Wyoming. July 2, 1860, recommissioned. Aug. 21, 1860, to the Powhatan, Atlantic Blockading Squadron. July 25, 1862, to the New Ironsides. Jan. 20, 1864, detached, and May 13, 1864, member Board of Examiners. Aug. 7, 1865, to the Norfolk Yard. June 15, 1869, to the Lancaster as Flee. Engineer of the S. Atlantic Station. April 24, 1872, detached and on sick leave. Sept. 2, 1872, President of Board of Examiners. Nov., 1872, to the Philadelphia Yard. Mar. 20, 1877, to the Hartford as Fleet Engineer of the N. Atlantic Station. June 30, 1877, to superintend construction of machinery for the Quinnebaug. Oct. 22, 1878, to the Norfolk Yard. Died, Norfolk, Mar. 24, 1880.

Lieutenant Colonel James Hemphill Jones, U. S. M. C. Born in Delaware. Commissioned Second Lieutenant from Delaware, Mar. 3, 1847. Mar. 11, 1847, to marine barracks, Philadelphia. Apr. 20, 1847, to recruiting rendezvous, Philadelphia. May 23, 1847, to duty with army in Mexico. Aug. 4, 1847, two month's sick leave. Nov. 1847, to marine barracks, Philadelphia. Mar. 4, 1848, to duty with army in Mexico. Aug. 31, 1848, dropped from the rolls, by order from Navy Dept., Aug. 18, 1848, in accordance with the provisions of the Act of Mar. 2, 1847, increasing the Marine Corps, during the war. Re-commissioned Second Lieutenant, Mar. 3, 1849, with rank from Mar. 3, 1847, in accordance with the Act of Mar. 3, 1849, and ordered to the Raritan, home station. June 22, 1850, detached

and to the marine barracks, Philadelphia. Dec. 24, 1850, to the Saranac, home squadron. Aug. 4, 1851, detached and to the marine barracks, Philadelphia. Mar. 18, 1852, to the marine barracks, Washington. May 10, 1852, to the Princeton. Detached Dec., 1852. Feb. 24, 1853, to the Macedonian, East India squadron. Promoted to First Lieutenant, Sept. 1, 1853. July 8, 1854, transferred to the Powhatan. Feb. 18, 1856, detached and two month's leave. April 21, 1856, to the receiving ship Ohio, Boston. May 15, 1858, to the Macedonian, at Boston. Sept. 1, 1859, to the marine barracks, Philadelphia. Sept. 11, 1860, to the Richmond, Mediterranean squadron. Dec. 15, 1860, transferred to the Susquehanna. Promoted to Captain, May 24, 1861. June 11, 1861, detached and to the marine barracks, Washington. Co-operating with the army in Virginia, July 16–22, 1861; at battle of Bull Run. Sept. 23, 1861, to the Lancaster, Pacific squadron. June 6, 1863, detached and to the Washington Yard. Promoted to Lieutenant Colonel, June 10, 1864. July 20, 1864, to marine barracks, Portsmouth. Dec. 10, 1867, to marine barracks, Mare Island. July 70, 1871, to marine barracks, Boston. Died, Boston, April 17, 1880.

Commander Sullivan Dorr Ames. Born in Rhode Island, July 16, 1840. Appointed midshipman from Rhode Island, Sept. 22, 1856. Naval Academy, 1856–60. Graduated June 15, 1860, No. 8, in a class of twenty five members. June 15, 1860, to the Dacotah, China station. Sept. 19, 1861, warranted Master. May 13, 1862, detached and to the Naval Academy; orders revoked and retained on board the Dacotah, N. Atlantic squadron; engagement with battery at Sewall's Point, May 8, 1862. Commissioned Lieutenant, July 16, 1862. May 15, 1864, detached and to the Naval Academy, executive duty. April 3, 1865, to the Colorado, European station; transferred to the Kearsarge. July 25, 1866, commissioned Lieut. Commander. Aug. 8, 1866, detached, and Sept. 25, 1866, to the Resaca, Pacific station. Transferred to the Pensacola. June 26, 1869, detached. Oct. 16, 1869, Boston Yard, ordnance duty. Feb. 4, 1870, detached, and Mar. 18, 1870, to the Naval Academy, executive duty. May 1, 1873, detached and to the Wabash, European station, staff duty. Jan. 6, 1874, commissioned Commander. Feb. 5, 1875, detached and six month's leave. Nov. 20, 1875, Portsmouth Yard, inspector of ordnance. Aug. 1, 1876, detached. April 11, 1877, inspector, fifth Light House District. Aug. 2, 1877, transferred to Second District. Detached Oct. 1, 1880. Died, Nov. 22, 1880. Total sea service, ten years, eight months; shore duty, eleven years, three months; in service, twenty four years, two months.

ANNUAL REPORT OF THE SECRETARY.

MR. PRESIDENT, AND MEMBERS OF THE INSTITUTE:—

In accordance with the custom established, I believe, at the last annual meeting, I have the honor to submit the following report in regard to matters connected with the office I have held during the past year. As it is difficult to draw the line between the matters appertaining exclusively to the duties of secretary and those of the other members of the executive acting as such, I shall include other matters which have at times been brought to the notice of the executive committee, the secretary of the Institute being at the same time secretary of that committee.

At present there are four hundred and eighty one members of the Institute, an increase of ninety nine as compared with the number reported by the secretary at the last annual meeting. The appended table, giving the number of each class of membership, will perhaps succinctly show the increase.

	Members.	Associate Members.	Life Members.	Honorary Members.	Total.
Jan. 1880.	368	7	2	5	382
Jan. 1881.	454	19	2	6	481
Increase,	86	12	0	1	99

It will be seen that this increase is mainly among the regular members. This is partly due to the adoption during the year of an amendment allowing persons not connected with the Navy to become members upon the same footing as naval officers; previous to the adoption of that amendment, gentlemen in civil life could become connected with the Institute only by election as honorary or as associate members. And here I may say that the large increase in the associate membership is due to the election of gentlemen as such, prior to the adoption of the amendment; since that time but one or two have been elected. Excluding the number of civilian members who have been elected, it is evident from the number of officers who have joined, that the interest taken by the Service at large in the Institute not only has not died out, but that it is spreading. Upon this account, the result must be gratifying to all interested, and also because it justifies us in consider-

ing an income assured, sufficient to meet with due economy all necessary expenses.

Viewing the affairs of the Institute from this standpoint, I venture to recommend that application should be made at the next session of the Legislative Assembly of Maryland, for an act of incorporation. I do not intend here to advance any arguments in favor of my recommendation, but simply to suggest the matter in such a public manner as to invite discussion among the members.

As I have mentioned above, the grade of associate member as originally established allowed the election of persons in civil life, interested in the Institute. The necessity for this being done away with by the adoption of an amendment allowing the election of fifty members unconnected with the Navy, I would suggest that the grade be reserved for military and naval officers alone. And in this connection I would recommend the creation of a grade of Temporary Honorary Members, to be conferred upon distinguished foreign naval or military officers during their temporary residence in the United States.

According to the report of the secretary, Lieut. J. C. Soley, at the last annual meeting, eight essays in competition for the annual prize given by the Institute, upon the subject, "The Naval Policy of the United States," were sent by him, in Jan., 1880, to Hon. Wm. M. Evarts, Secretary of State, Hon. R. W. Thompson, Secretary of Navy, and Hon. J. R. McPherson, U. S. Senator from New Jersey. Since that time nothing has been heard from these gentlemen, selected as judges by the executive committee, as to their decision.

The subject selected for the essays, for the annual prize of 1881, was "The Type of (1) Cruiser, (2) Armored Vessel, best suited to the present uses of the United States." In competition four essays were received and by me sent to the judges selected by the Executive Committee; viz., Commo. Wm. M. Jeffers, Chief Bureau Ordnance, Chief Engnr. J. W. King, and Chief Constructor John Lenthall. I regret to announce so few competitors for the prize when the question was one which afforded such ample field for discussion, but, possibly the paucity of the number of competitors may be attributed to the non-publication of the prize essay for 1880, and the consequent feeling of uncertainty generated in the minds of the members of the Institute.

During the year sixteen papers have been read before the Institute and the various branches; of these, eight have been published together with five articles not read but inserted under the head of professional notes, and one discussion upon a uniform system of Boat Rig, form-

ing Nos. 11, 12 and 13 of the Proceedings. Correspondence has been established with four additional scientific societies, and in addition, copies of the Proceedings have been sent to the leading professional periodicals of Europe. To a certain extent, American naval officers will be judged among the recipients of these numbers by the character and tone of the articles appearing therein. It has therefore been the aim of the Executive Committee to maintain a high standard by the character of the articles published and in other ways to attain the objects for which the Institute was established. Naturally of primary importance, in a publication of this kind, are papers containing original ideas upon matters pertaining to the naval profession. But further, papers not essentially original, but written for the purpose of disseminating scientific information are especially valuable. And again, perhaps no more fitting place could be found for monographs on Naval Biography and Naval History than in a journal written and maintained by naval officers. In fine, it is the desire of the executive committee to make the proceedings of the Naval Institute, a complete record of the workings of the naval mind for the years in which it is published, and to this end, it to be hoped that they will have the active aid and coöperation of their brother officers, without which success is impossible.

Respectfully,

C. BELKNAP,

Lieut. U. S. N. and Secretary.

Annapolis, Maryland, Jan. 13, 1881.

ANNUAL REPORT OF THE TREASURER.

U. S. NAVAL ACADEMY.
Annapolis, Jan'y 7th, 1881.

GENTLEMEN:

The enclosed report is respectfully submitted of the receipts and expenditures of the Institute from Jan. 7th, 1880, to Jan. 7th, 1881, showing a balance on hand at this date of $601. 04; of this amount, there will be required $150.00 for the prize and medal to be awarded to the writer of the successful paper on the "Naval Policy of the U. S."; and about $190.00 for printing the last number of the Proceedings for 1880, (which is now in the hands of the printer) which will leave a balance of about $261. 00 in the hands of the Treasurer, after the settlement of all accounts belonging to 1880.

There is due the Institute from one hundred and three members who have not yet paid their dues for 1880, $309.00.

Respectfully,
JAMES P. SPRAGUE,
Treasurer U. S. N. I.

AMOUNTS RECEIVED

by the Treasurer of U. S. Naval Institute from Jan'y 7th, 1880 to Jan'y 7th, 1881.

Bal. on hand, Jan'y 7th 1880,	$ 525 70
Dues received from various Branches,	410 76
" " at Annapolis,	783 00
Amount " for Advertisements,	48 00
" " " Life Commo. Morris,	76 00
" " " Proceedings,	11 75
	$ 1855 21

AMOUNTS EXPENDED.

Bills paid for Printing Committee,	$ 1048 62
Postage paid on Proceedings, and for officers of Institute,	69 14
Paper, Envelopes and Blank Books,	42 00
Expenses of the various Branches,	67 67
Freight and expressage,	26 74
	$ 1254 17
Cash in hands of Treasurer to balance,	601 04
	$ 1855 21